

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for processing a computer aided polygon model, comprising:

forming a linear vertex array which is static and which contains the vertices of the image elements of the polygon model;

forming a linear index array whose elements define the image elements of the polygon model by pointing at the vertices of each image element, and which linear index array comprises an active part, the image elements defined by the elements of the active part being included in the polygon model part to be presented graphically; and

modifying the active part of the index array to change the image elements included in the polygon model part to be presented graphically while maintaining the linearity of the index array.

2. (Previously Presented) A method according to claim 1, further comprising presenting graphically the polygon model part to be presented graphically.

3. (Previously Presented) A method according to claim 1, further comprising modifying the active part of the linear index array by replacing an element of the linear index array with another element of the linear index array.

4. (Previously Presented) A method according to claim 1, further comprising forming the linear vertex array in such a way that each vertex appears in the vertex array only once.

5. (Previously Presented) A method according to claim 1, further comprising forming a linear index array in such a way that the linear index array further comprises a passive part, the image elements defined by the elements of the passive part belonging to the outside of the polygon model part to be presented graphically; and

modifying the active part of the linear index array by moving at least one element of the linear index array between the active part and the passive part.

6. (Previously Presented) A method according to claim 1, further comprising registering the modification of the linear index array in such a way that the linear index array is restorable to the state preceding the modification.

7. (Previously Presented) A method according to claim 1, further comprising receiving a modification command to modify the active part of the linear index array; and changing the size of the active part of the linear index array on the basis of the modification command.

8. (Previously Presented) A method according to claim 1, further comprising receiving a modification command to modify the active part of the linear index array; and modifying the active part of the linear index array on the basis of the modification command.

9. (Previously Presented) A device for processing a computer aided polygon model, comprising:

a linear vertex array which is static and which contains the vertices of the image elements of the polygon model;

a linear index array whose elements define the image elements of the polygon model by pointing at the vertices of each image element, and which linear index array comprises an active part, the image elements defined by the elements of the active part being included in the polygon model part to be presented graphically; and

a modification unit to modify the active part of the index array to change the image elements included in the polygon model part to be presented graphically while maintaining the linearity of the linear index array.

10. (Previously Presented) A device according to claim 9, further comprising a graphic user interface for presenting graphically the polygon model part to be presented graphically.

11. (Previously Presented) A device according to claim 9, wherein the modification unit is configured to replace an element of the linear index array with another element of the linear index array.

12. (Previously Presented) A device according to claim 9, wherein the linear vertex array contains each vertex only once.

13. (Previously Presented) A device according to claim 9, wherein the linear index array further comprises a passive part, the image elements defined by the elements of the passive part belonging to the outside of the polygon model part to be presented graphically; and
wherein the modification unit is configured to move at least one element of the linear index array between the active part and the passive part.

14. (Previously Presented) A device according to claim 9, further comprising a change array for registering the modification of the linear index array in such a way that the linear index array is restorable to the state preceding the modification.

15. (Previously Presented) A device according to claim 9, wherein the modification unit is configured to receive a modification command to modify the active part of the linear index array; and

wherein the modification unit is configured to change the size of the active part of the linear index array on the basis of the modification command.

16. (Previously Presented) A device according to claim 9, wherein the modification unit is configured to receive a modification command to modify the active part of the linear index array; and

wherein the modification unit is configured to modify elements of the active part of the linear index array on the basis of the modification command.

17. (Currently Amended) A computer program for processing a polygon model, comprising:

a linear vertex array which is static and which contains the vertices of the image elements of the polygon model;

a linear index array whose elements define the image elements of the polygon model by pointing at the vertices of each image element, and which linear index array comprises an active part, the image elements defined by the elements of the active part being included in the polygon model part to be presented graphically; and

computer-executable commands for modifying the active part of the index array to change the image elements included in the polygon model part to be presented graphically while maintaining the linearity of the linear index array,

wherein the computer program is embodied on a computer readable medium.

18. (Previously Presented) A computer program according to claim 17, further comprising computer-executable commands for presenting graphically the polygon model part to be presented graphically.

19. (Previously Presented) A computer program according to claim 17, further comprising computer-executable commands to replace an element of the linear index array with another element of the linear index array.

20. (Previously Presented) A computer program according to claim 17, wherein the linear vertex array comprises each vertex only once.

21. (Previously Presented) A computer program according to claim 17, wherein the linear index array further comprises a passive part, the image elements defined by the elements of the passive part belonging to the outside of the polygon model part to be presented graphically; and

wherein the computer program further comprises computer-executable commands to move at least one element of the linear index array between the active part and the passive part.

22. (Previously Presented) A computer program according to claim 17, further comprising a change array to register the modification of the linear index array in such a way that the linear index array is restorable to the state preceding the modification.

23. (currently amended) A computer program according to claim 17, further comprising:

computer-executable commands to receive a modification command to modify the active part of the linear index array; and

computer-executable commands to change the size of the active part of the linear index array on the basis of the modification command.

24. (Previously Presented) A computer program according to claim 17, further comprising:

computer-executable commands to receive a modification command to modify the active part of the linear index array; and

computer-executable commands to modify the active part of the linear index array on the basis of the modification command.